

SPECIFICATIONS:
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAND 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 1,346 FT.

GENERAL NOTES:
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 3) FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED FOR 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:
 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:
 - PROPOSED MAINLINE A
 - PROPOSED MAINLINE B
 - PERMANENT EASEMENT
 - TEMPORARY WORK SPACE
 - ADDITIONAL TEMPORARY WORK SPACE
 - ACCESS PATH
 - GEOTECH CORE

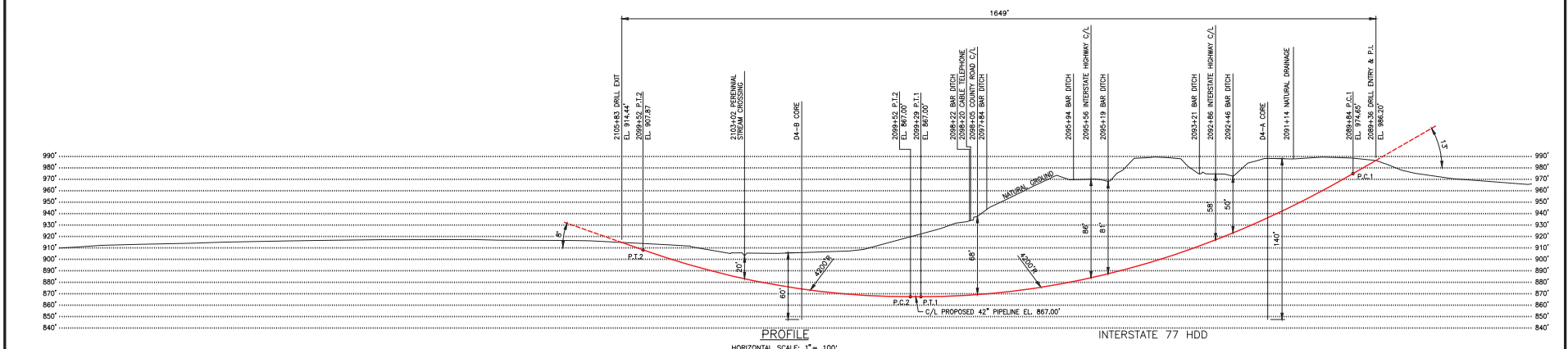
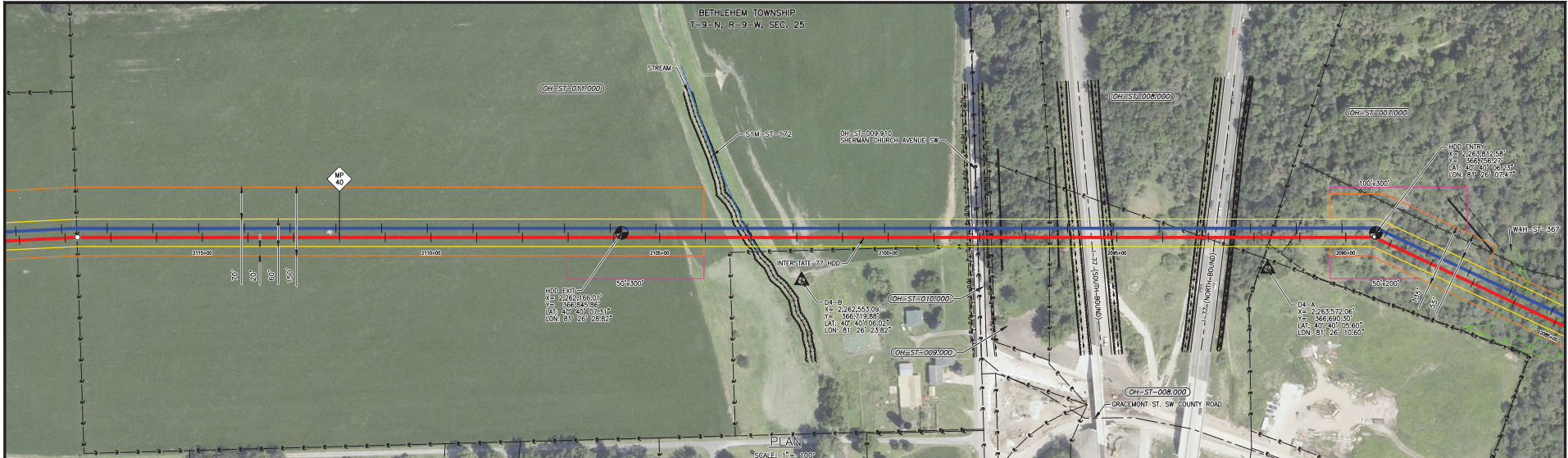
ENVIRONMENTAL LEGEND:
 - PERENNIAL STREAM
 - EPHEMERAL STREAM
 - INTERMITTENT STREAM
 - NATURAL DRAINAGE
 - WATERBODY
 - WETLAND EMERGENT
 - WETLAND FORESTED
 - WETLAND SCRUB SHRUB

D. FERC FILING UPDATE		KMA	6-3-15	JHR	JHR
C. FERC FILING		MFZ	1-15-15	CRF	JHR
B. GEOTECHNICAL CORE COLLECTION		GJD	11-7-14	CRF	JHR
A. FERC DRAFT FILING		MFZ	11-5-14	CRF	JHR

ML-P3-2018	ALIGNMENT				
DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE

CHECKED BY: DATE APPROVED BY: DATE DATE	P.L./D.W. NO. A.C.C./O.M. NO. CONSTRUCTION YEAR 2016	DESIGN JHR ASBUILT NLM 9-24-14	FILE NO. SCALE: NOTED
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PROJECT NO. 58500000001	PREVIOUS DWG. NO. SHEET 1 OF 1 DWG. NO. ML-P4-03 SHEET 1 OF 1
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SPECIFICATIONS:
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAKP 1,440 PSIG
 LOCATION CLASS: 1
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 1,661 FT.

GENERAL NOTES:
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 3) FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:
 1) EROSION/SEDIMENTATION CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:

- PROPOSED MAINLINE A
- PROPOSED MAINLINE B
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ADDITIONAL TEMPORARY WORK SPACE
- ACCESS PATH
- GEOTECH CORE

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHK'D	APP'D
ML-P3-2022	ALIGNMENT						

DWG. STATUS	CHECKED			APPROVED			P.L./D.W. NO. / ACTION NO.	CONSTRUCTION YEAR	2016
	BY	DATE		BY	DATE				
PRELIM							DESIGN	JHR	3-18-14
BID							DRAWN	KMA	3-18-14
CONSTR.							ASBUILT		
CADD							FILE NO.		
							SCALE: NOTED		



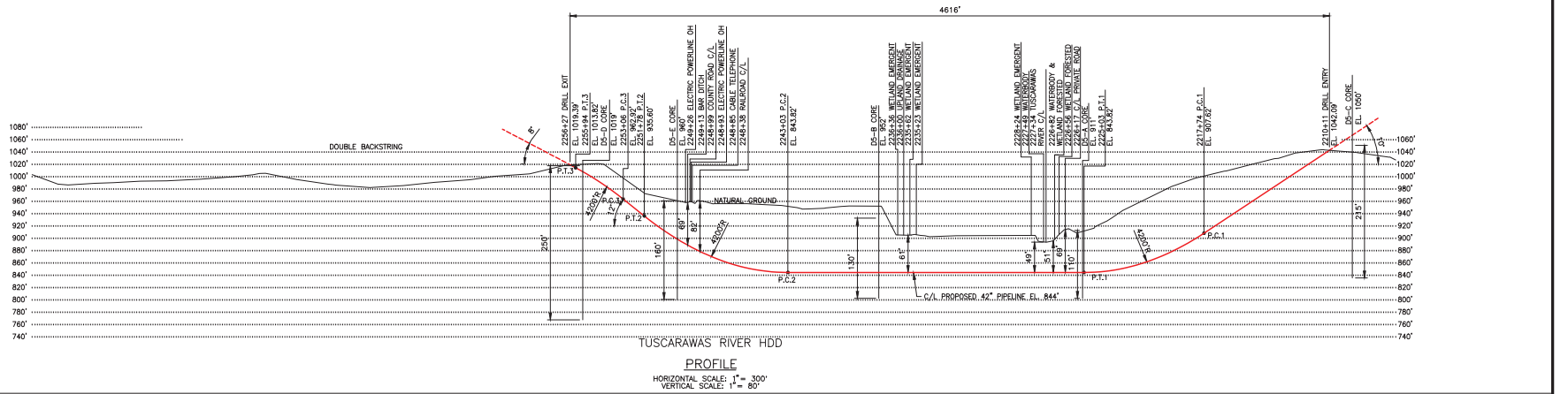
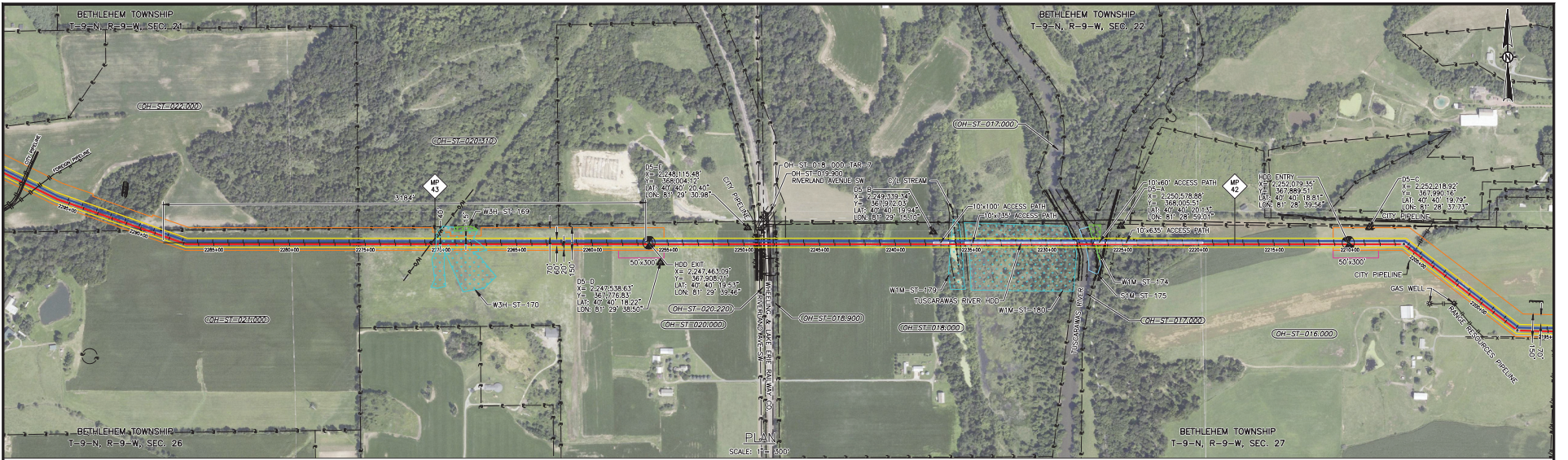
ROVER PIPELINE PROJECT
 MAINLINE - 42" NG PIPELINE
 INTERSTATE 77 HDD
 M.P. 39.6 TO M.P. 39.9
 STARK COUNTY, OHIO

PROJECT NO. 58500000001
 PREVIOUS DWG. NO. _____
 SHEET 1 OF 1
 DWG. NO. ML-P4-04
 SHEET 1 OF 1

G2-19

Appendix G-2

05-05-15 11:55 14 KMA



SPECIFICATIONS:
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAKP 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 4,650 FT.

GENERAL NOTES:
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 3) FOOT ACCESS FOR HDD GUIDED WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:
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 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:
 - - - PERENNIAL STREAM
 - - - EPHEMERAL STREAM
 - - - INTERMITTENT STREAM
 - - - NATURAL DRAINAGE
 - - - WATERBODY
 - - - WETLAND EMERGENT
 - - - WETLAND FORESTED
 - - - WETLAND SCRUB SHRUB

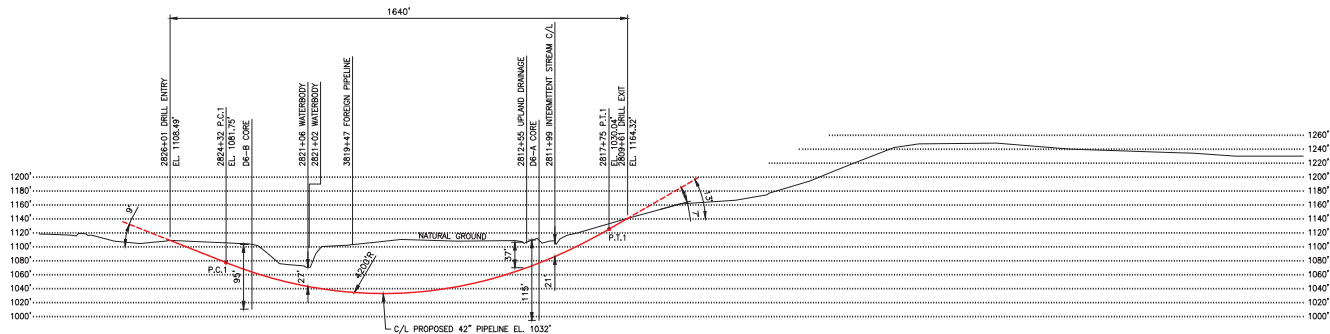
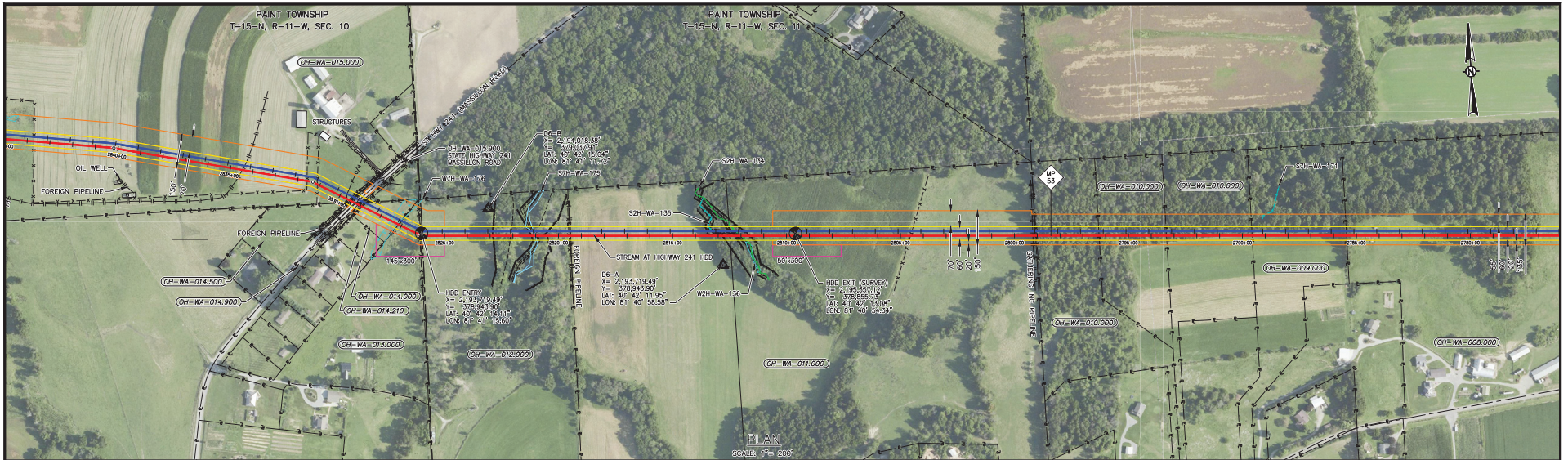
ENVIRONMENTAL LEGEND:
 - - - PERENNIAL STREAM
 - - - EPHEMERAL STREAM
 - - - INTERMITTENT STREAM
 - - - NATURAL DRAINAGE
 - - - WATERBODY
 - - - WETLAND EMERGENT
 - - - WETLAND FORESTED
 - - - WETLAND SCRUB SHRUB

DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHK'D	APP'D
ML-P3-3004	ALIGNMENT	A	FERC FILING				
ML-P3-3003	ALIGNMENT	A	FERC FILING				

DWG STATUS	CHECKED	APPROVED	PL/DIR. NO.	CONTRACT NO.	CONSTRUCTION YEAR
PRELIM	BY DATE	BY DATE			2016
CONSTR.					
CADD	FILE NAME:	FILE NO.	SCALE:	NOTED	

DESIGN	JHR	DATE
DESIGN	JHR	9-25-14
ASBUILT	NLM	9-25-14

PROJECT NO:	58500000001
PREVIOUS DWG. NO.:	
SHEET 1 OF 1	
DWG. NO.:	ML-P4-05
SHEET 1 OF 1	



STREAM AT HIGHWAY 241 HDD
PROFILE
 HORIZONTAL SCALE: 1" = 200'
 VERTICAL SCALE: 1" = 80'

SPECIFICATIONS:

CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAOP: 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 1,654 FT.

GENERAL NOTES:

- GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
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LEGEND:

- PROPOSED MAINLINE A
- PROPOSED MAINLINE B
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ADDITIONAL TEMPORARY WORK SPACE
- ACCESS PATH
- ▲ GEOTECH CORE

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

ML-P3-3014	ALIGNMENT	NO.	REVISION - DESCRIPTION	BY	DATE	CHKD	APPD
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	D		FERC FILING UPDATE	KMA	6-23-15	JHR	JHR
	C		FERC FILING	KMA	1-15-15	JHR	JHR
	B		GEOTECHNICAL CORE COLLECTION	RBR	11-7-14	CRF	JHR
	A		FERC DRAFT FILING	NLM	11-5-14	CRF	JHR

DWG STATUS	CHECKED	APPROVED			P.L./DWG NO.	CONSTRUCTION YEAR	2016
	BY DATE	BY DATE	BY DATE	DATE			
PRELIM					DESIGN	JHR	
BID					DRAWN	NLM	10-1-14
CONSTR.					ASBUILT		
CADD					FILE NO.		
	PLOT DATE:				SCALE:	NOTED	
	FILE NAME:						

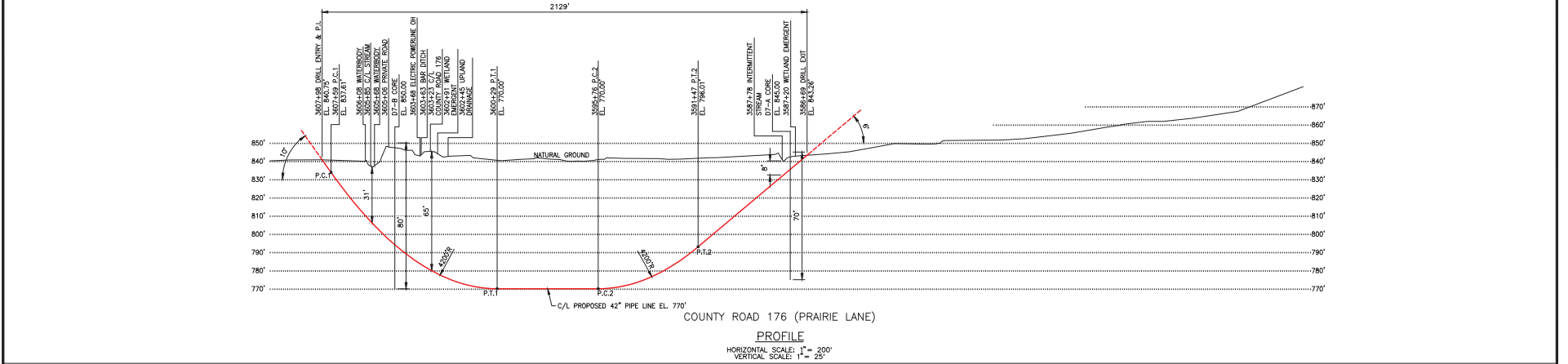


ROVER PIPELINE PROJECT
 MAINLINE - 42" NG PIPELINE
 STREAM AT HIGHWAY 241 HDD
 M.P. 53.2 TO M.P. 53.5
 WAYNE COUNTY, OHIO

PROJECT NO.	58500000001
PREVIOUS DWG. NO.	
SHEET 1 OF 1	
DWG. NO.	ML-P4-06
SHEET 1 OF 1	

G-2-1

Appendix G-2



SPECIFICATIONS:
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAKP 9, 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 2,137 FT.

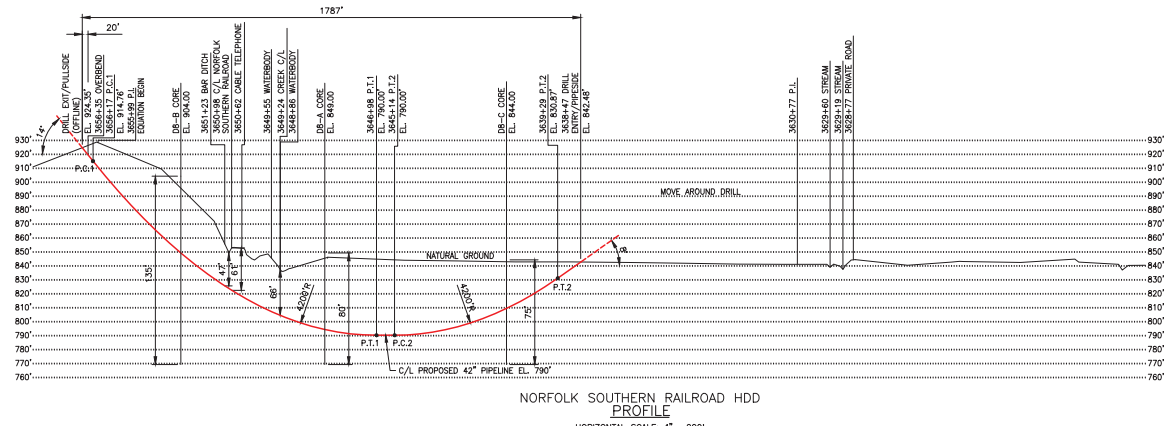
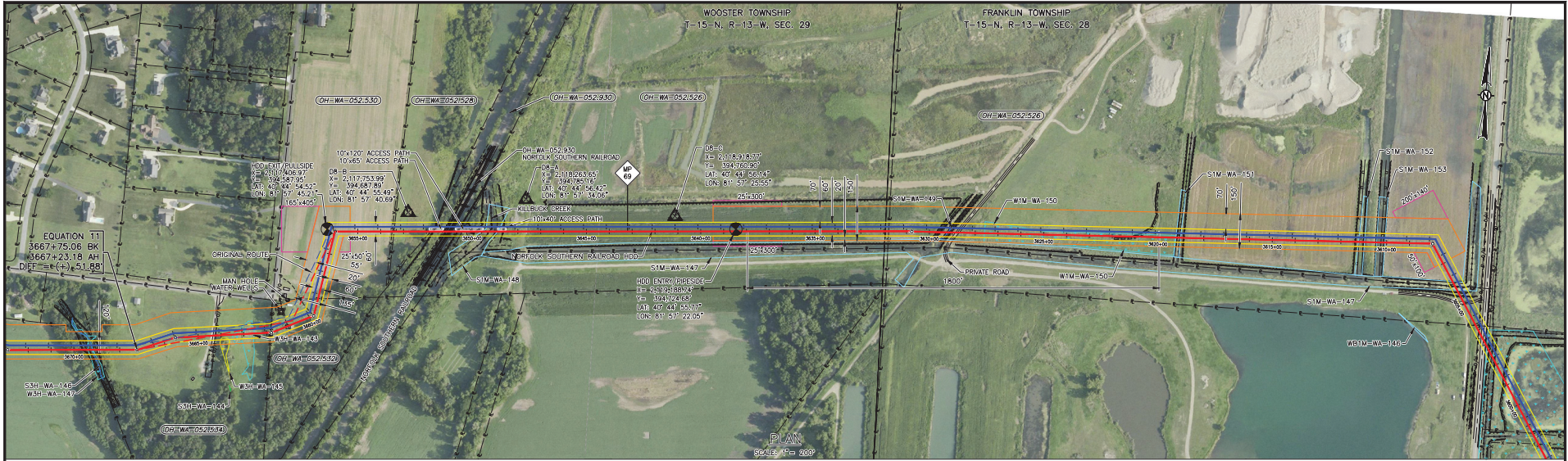
GENERAL NOTES:
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
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ENVIRONMENTAL NOTES:
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LEGEND:
 - - - PROPOSED MAINLINE A
 - - - PROPOSED MAINLINE B
 - - - PERMANENT EASEMENT
 - - - TEMPORARY WORK SPACE
 - - - ADDITIONAL TEMPORARY WORK SPACE
 - - - ACCESS PATH
 - - - GEOTECH CORE

ENVIRONMENTAL LEGEND:
 - - - PERENNIAL STREAM
 - - - EPHEMERAL STREAM
 - - - INTERMITTENT STREAM
 - - - NATURAL DRAINAGE
 - - - WATERBODY
 - - - WETLAND EMERGENT
 - - - WETLAND FORESTED
 - - - WETLAND SCRUB SHRUB

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DWG. STATUS	CHECKED BY	DATE	APPROVED BY	DATE	PL/DIR. NO.	ACTUAL NO.	CONSTRUCTION YEAR	2016																																																														
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		D	FERC FILING UPDATE	LEW	6-3-15	CRF	JHR																																																															



NORFOLK SOUTHERN RAILROAD HDD PROFILE
 HORIZONTAL SCALE: 1" = 200'
 VERTICAL SCALE: 1" = 40'

SPECIFICATIONS:
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAKP, 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 1,800 FT.

GENERAL NOTES:
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
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LEGEND:
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 - - - PROPOSED MAINLINE B
 - - - PERMANENT EASEMENT
 - - - TEMPORARY WORK SPACE
 - - - ADDITIONAL TEMPORARY WORK SPACE
 - - - ACCESS PATH
 ▲ GEOTECH CORE

ENVIRONMENTAL LEGEND:
 - - - PERENNIAL STREAM
 - - - EPHEMERAL STREAM
 - - - INTERMITTENT STREAM
 - - - NATURAL DRAINAGE
 - - - WATERBODY
 - - - WETLAND EMERGENT
 - - - WETLAND FORESTED
 - - - WETLAND SCRUB SHRUB

DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHKD	APP'D
ML-P3-3030	ALIGNMENT						

DWG STATUS	CHECKED			APPROVED			PL/DRW NO. ACTION NO.	CONSTRUCTION YEAR	2016
	BY	DATE		BY	DATE	DATE			
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CONSTR.							DRAWN	KMA	9-9-14
CADD							ASBUILT		
	PLT DATE:			FILE NO.:			SCALE:	NOTED	



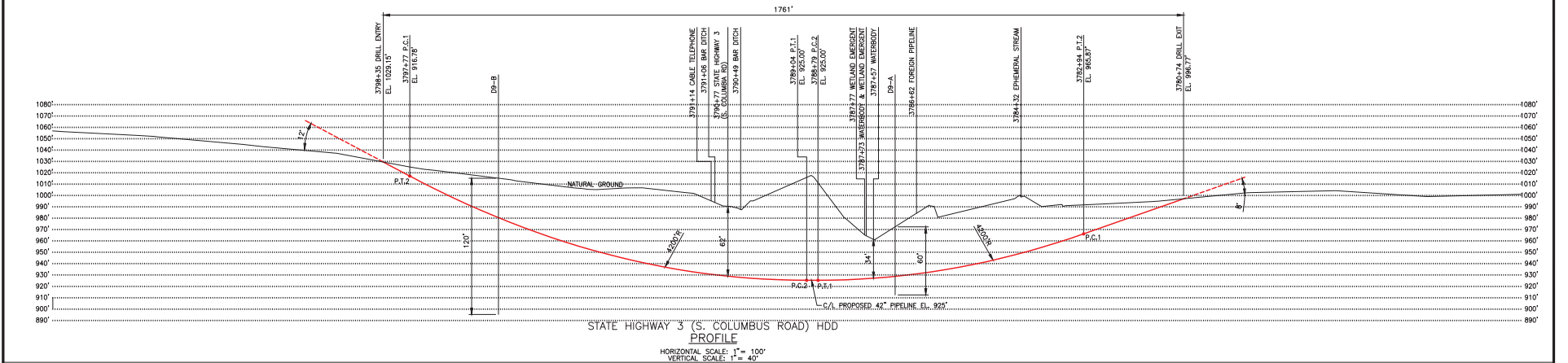
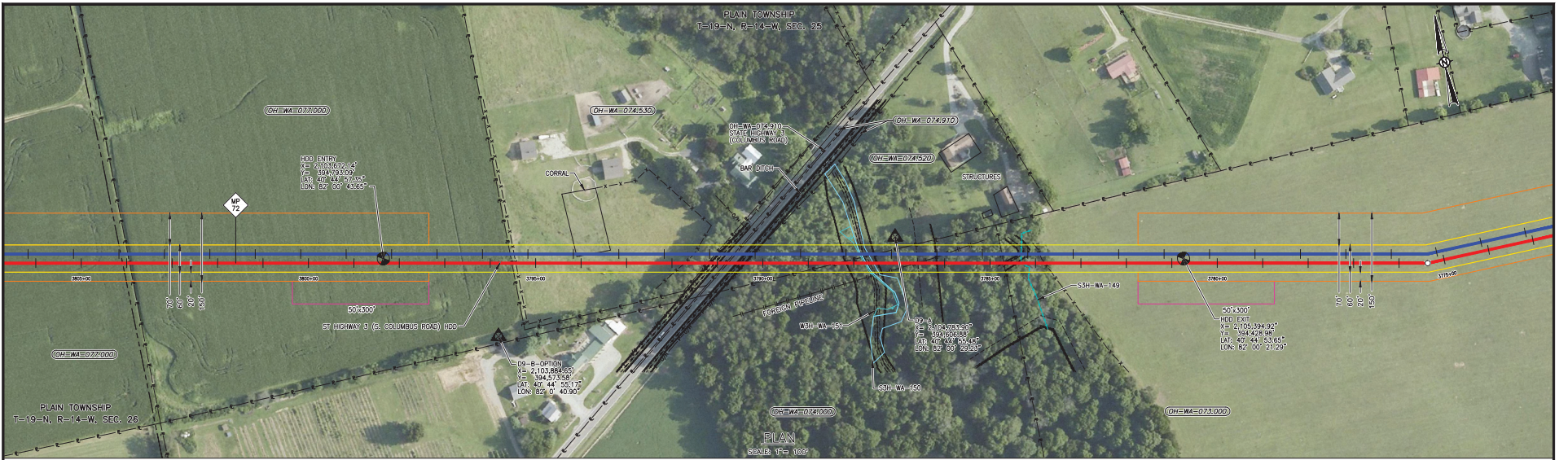
ROVER PIPELINE PROJECT
 MAINLINE - 42" NG PIPELINE
 NORFOLK SOUTHERN RAILROAD HDD
 M.P. 68.9 TO M.P. 69.2
 WAYNE COUNTY, OHIO

PROJECT NO.: 58500000001
 PREVIOUS DWG. NO.:
 SHEET 1 OF 1
 DWG. NO.: ML-P4-08
 SHEET 1 OF 1

G-23

Appendix G-2

05/05/15 15:05:25 28.000



GENERAL NOTES:

- GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:

- EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
- PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

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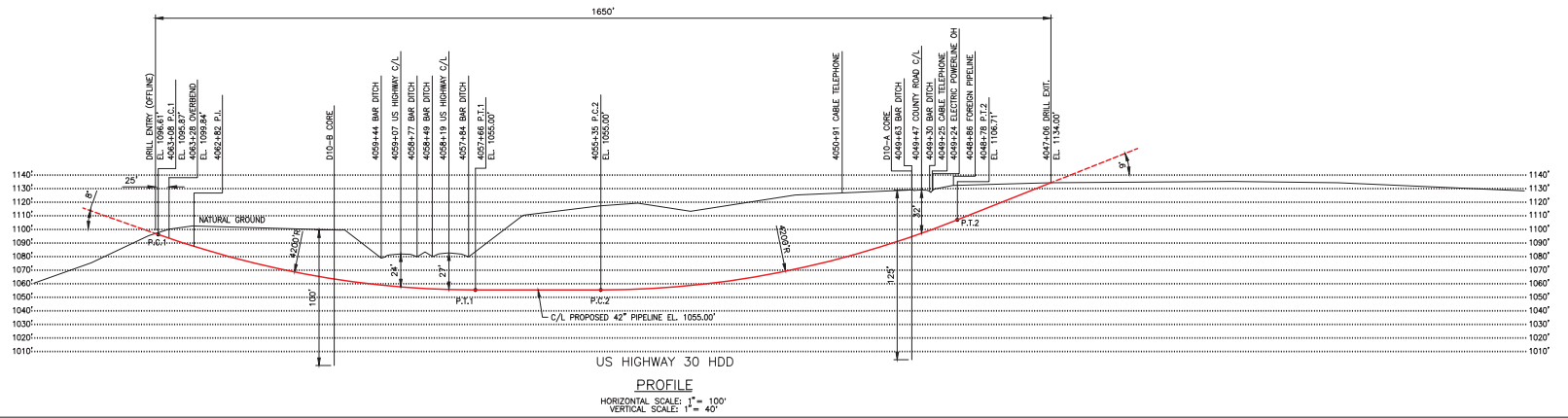
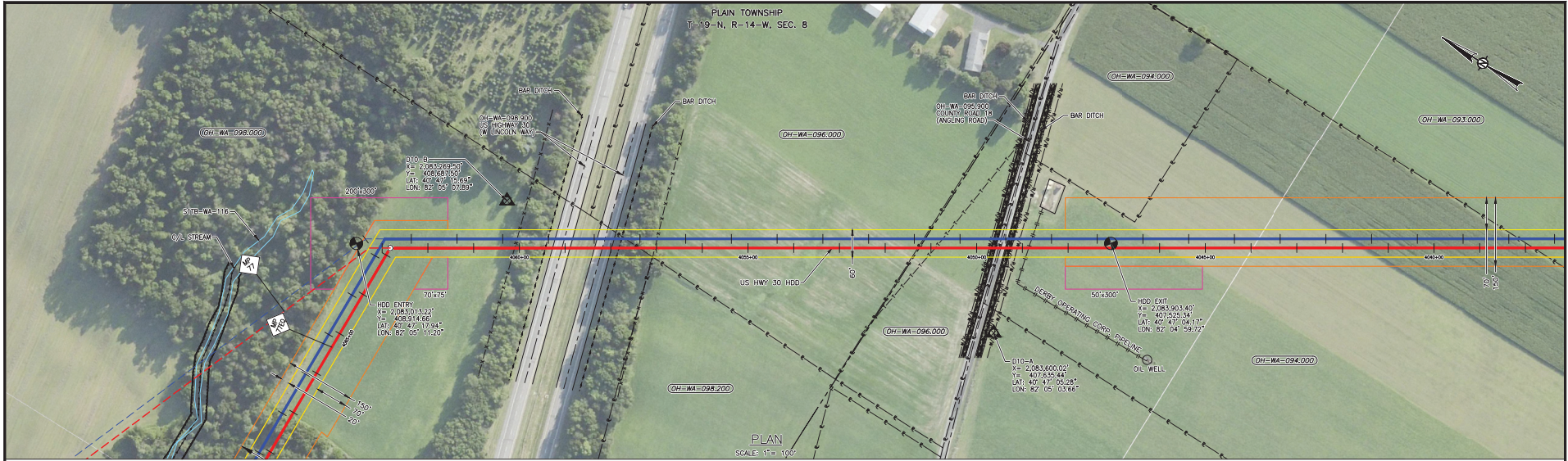
- PROPOSED PIPELINE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ADDITIONAL TEMPORARY WORK SPACE
- ACCESS PATH
- GEOTECH CORE

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

SPECIFICATIONS:		GENERAL NOTES:		ENVIRONMENTAL NOTES:		LEGEND:		ENVIRONMENTAL LEGEND:	
CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO. HYDROSTATIC PRE-TEST PRESSURE: TBD" PSIG MIN - TBD" PSIG MAX. DESIGN PRESSURE: MASP 1,440 PSIG. LOCATION CLASS: TBD. DESIGN FACTOR: 0.5. TRUE LENGTH: 1,773 FT.		1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.		1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.		+ PROPOSED PIPELINE		PERENNIAL STREAM	
		2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.		2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.		- PERMANENT EASEMENT		EPHEMERAL STREAM	
		3) FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.		3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.		- TEMPORARY WORK SPACE		INTERMITTENT STREAM	
				4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.		- ADDITIONAL TEMPORARY WORK SPACE		NATURAL DRAINAGE	
						- ACCESS PATH		WATERBODY	
						▲ GEOTECH CORE		WETLAND EMERGENT	
								WETLAND FORESTED	
								WETLAND SCRUB SHRUB	

ML-P3-3033 ALIGNMENT		NO. REVISION - DESCRIPTION		BY DATE CHKD APPD		DWG STATUS		CHECKED BY DATE		APPROVED BY DATE		PL/DATE NO. 2016		CONSTRUCTION YEAR		PROJECT NO. 58500000001	
						PREL.Y						DESIGN BY DATE		2016		PREVIOUS DWG. NO.	
						CONSTR.						DESIGN BY DATE		2016		SHEET 1 OF 1	
						CADD						DESIGN BY DATE		2016		DWG. NO.	
												DESIGN BY DATE		2016		ML-P4-09	
												DESIGN BY DATE		2016		SHEET 1 OF 1	



- SPECIFICATIONS:**
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: TBD" PSIG MIN - TBD" PSIG MAX
 DESIGN PRESSURE: MASP 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 1,657 FT.
- GENERAL NOTES:**
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 3) FOOT ACCESS FOR HDD GUIDED WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.
- ENVIRONMENTAL NOTES:**
 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.
- LEGEND:**
 - PROPOSED MAINLINE A
 - PROPOSED MAINLINE B
 - PERMANENT EASEMENT
 - TEMPORARY WORK SPACE
 - ADDITIONAL TEMPORARY WORK SPACE
 - ACCESS PATH
 - GEOTECH CORE
- ENVIRONMENTAL LEGEND:**
 - PERENNIAL STREAM
 - EPHEMERAL STREAM
 - INTERMITTENT STREAM
 - NATURAL DRAINAGE
 - WATERBODY
 - WETLAND EMERGENT
 - WETLAND FORESTED
 - WETLAND SCRUB SHRUB

DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHKD	APPD
ML-P3-3038	ALIGNMENT	A	FERC FILING				
		B	GEOTECHNICAL CORE COLLECTION				
		C	FERC FILING				
		D	FERC FILING UPDATE				

DWG STATUS	CHECKED		APPROVED		PL/DATE NO. APPROVAL	CONSTRUCTION YEAR	2016
	BY	DATE	BY	DATE			
PRELIM							
BID							
CONSTR.							
CADD							

ROVER PIPELINE PROJECT
 ADVANCE TRANSPORTATION

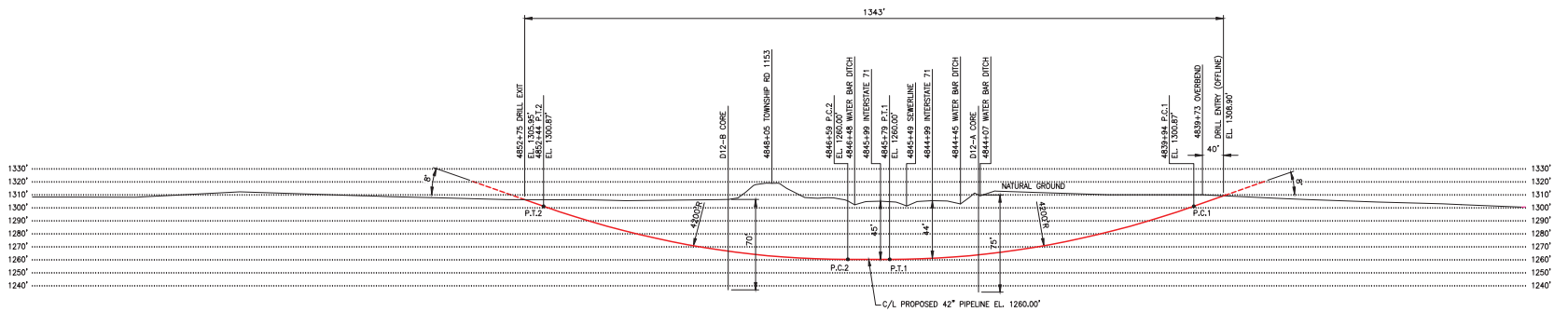
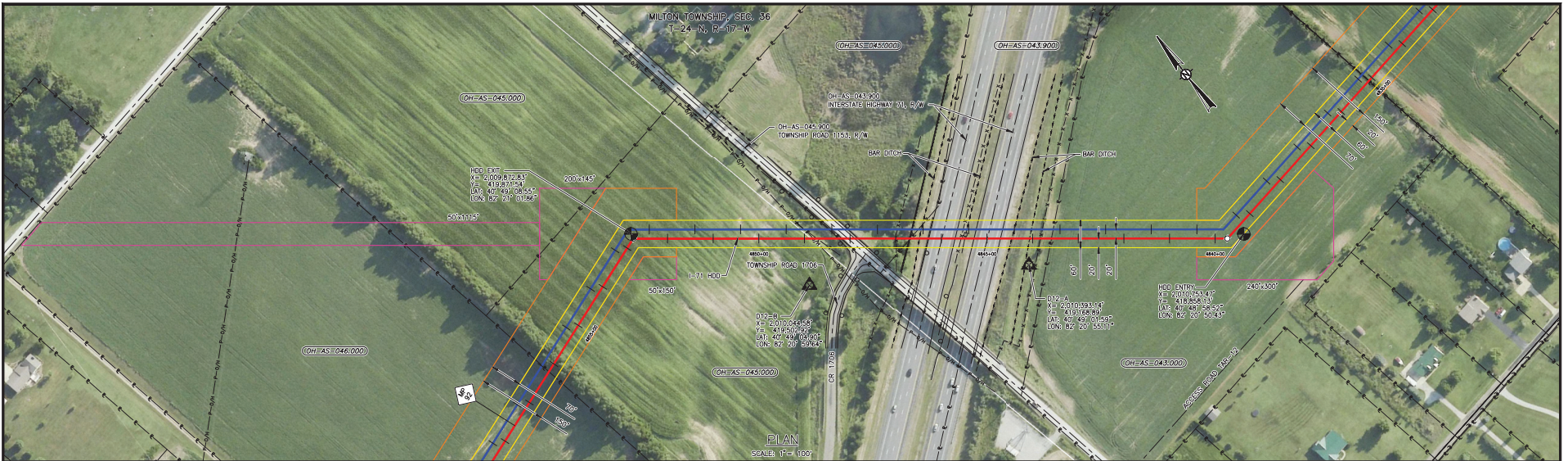
PROJECT NO. 58500000001
 PREVIOUS DWG. NO. SHEET 1 OF 1
 DWG. NO. ML-P4-10
 SHEET 1 OF 1

ROVER PIPELINE PROJECT
 MAINLINE - 42" NG PIPELINE
 US HIGHWAY 30 HDD
 M.P. 76.6 TO M.P. 77.0
 WAYNE COUNTY, OHIO

G-25

Appendix G-2

05-05-15 11:00 111.5 18.00



INTERSTATE 71 HDD
PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 40'

SPECIFICATIONS:

CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAND 1,440 PSIG
LOCATION CLASS: T.B.D.
DESIGN FACTOR: 0.5
TRUE LENGTH: 1,347 FT.

GENERAL NOTES:

- GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:

- EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
- PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:

- PROPOSED PIPELINE
 - PERMANENT EASEMENT
 - TEMPORARY WORK SPACE
 - ADDITIONAL TEMPORARY WORK SPACE
 - ACCESS PATH
 - GEOTECH CORE
- ENVIRONMENTAL LEGEND:
- PERENNIAL STREAM
 - EPHEMERAL STREAM
 - INTERMITTENT STREAM
 - NATURAL DRAINAGE
 - WATERBODY
 - WETLAND EMERGENT
 - WETLAND FORESTED
 - WETLAND SCRUB SHRUB

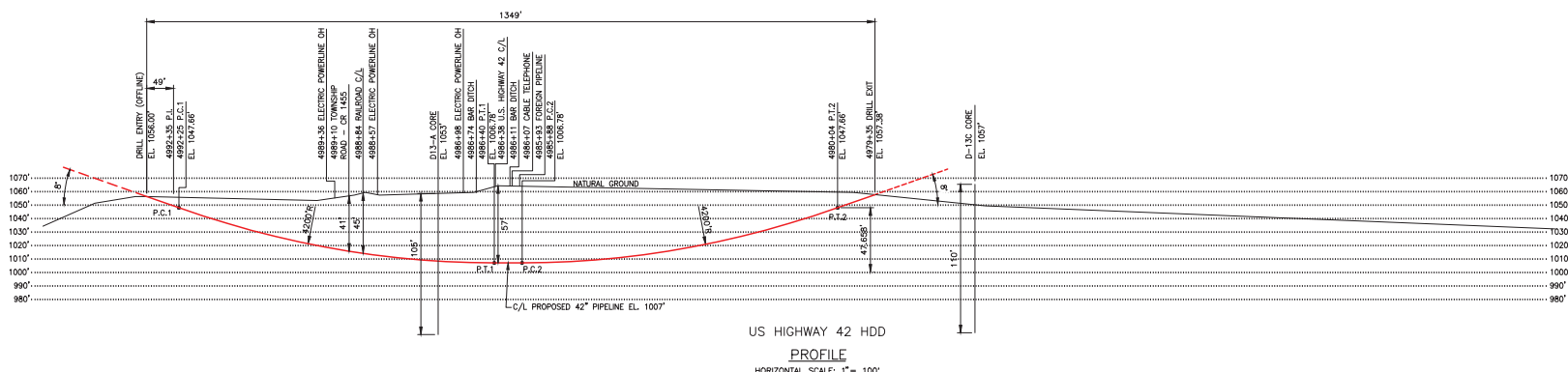
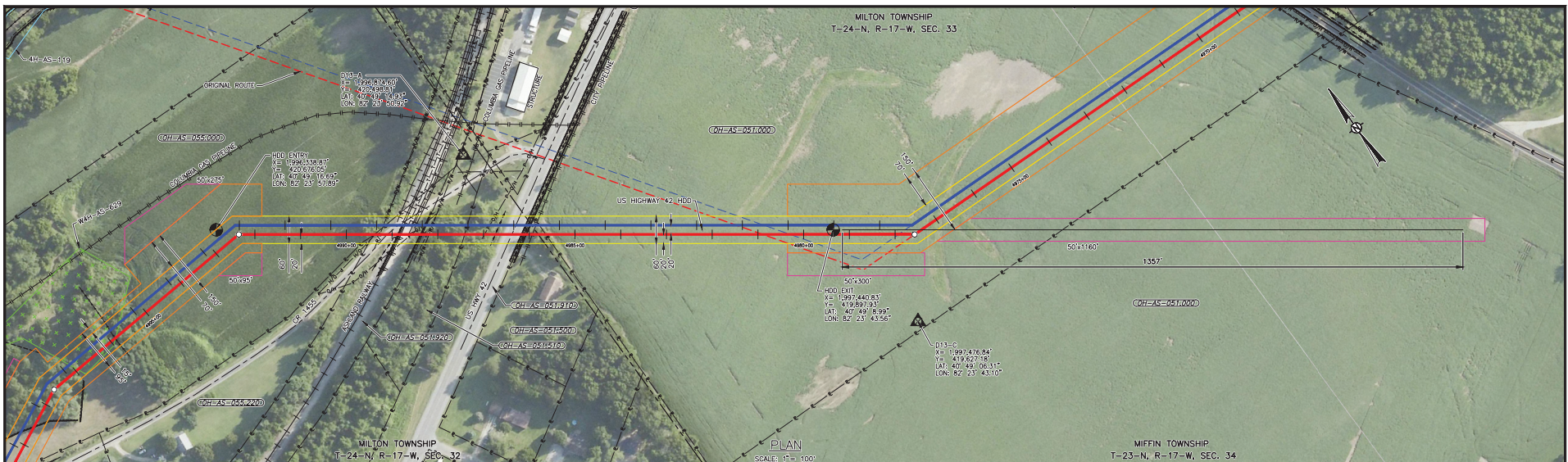
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		D	FERC FLING UPDATE	KMA	6-3-15	JHR	JHR
		C	FERC FLING	MFZ	1-15-15	CRF	JHR
		B	GEOTECHNICAL CORE COLLECTION	RBR	11-7-14	CRF	JHR
		A	FERC DRAFT FLING	NLM	11-5-14	CRF	JHR

DWG STATUS	CHECKED		APPROVED		PL/DIR. NO.	CONSTRUCTION YEAR	2016
	BY	DATE	BY	DATE			
PRELIM					DESIGN	JHR	
BID					DRAWN	NLM	9-30-14
CONSTR.					ASBUILT		
CADD					FILE NO.		
					SCALE:	NOTED	



ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
INTERSTATE 71 HDD
M.P. 91.6 TO M.P. 91.9
ASHLAND COUNTY, OHIO

PROJECT NO.	58500000001
PREVIOUS DWG. NO.	
SHEET 1 OF 1	
DWG. NO.	ML-P4-12
SHEET 1 OF 1	



US HIGHWAY 42 HDD
PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 40'

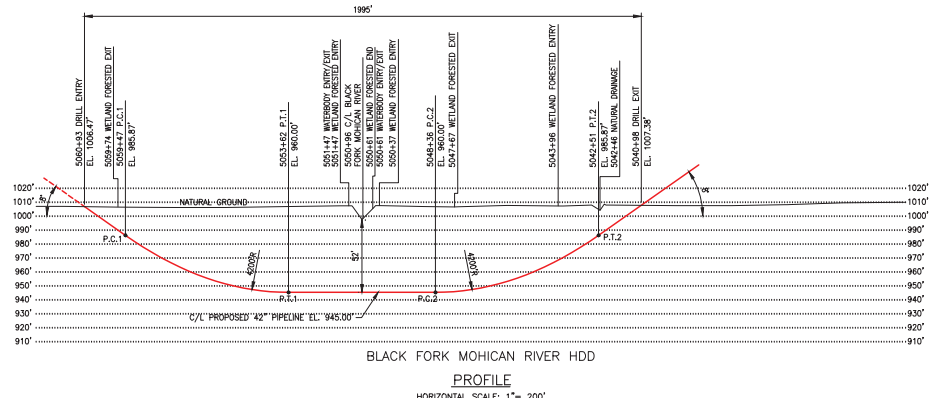
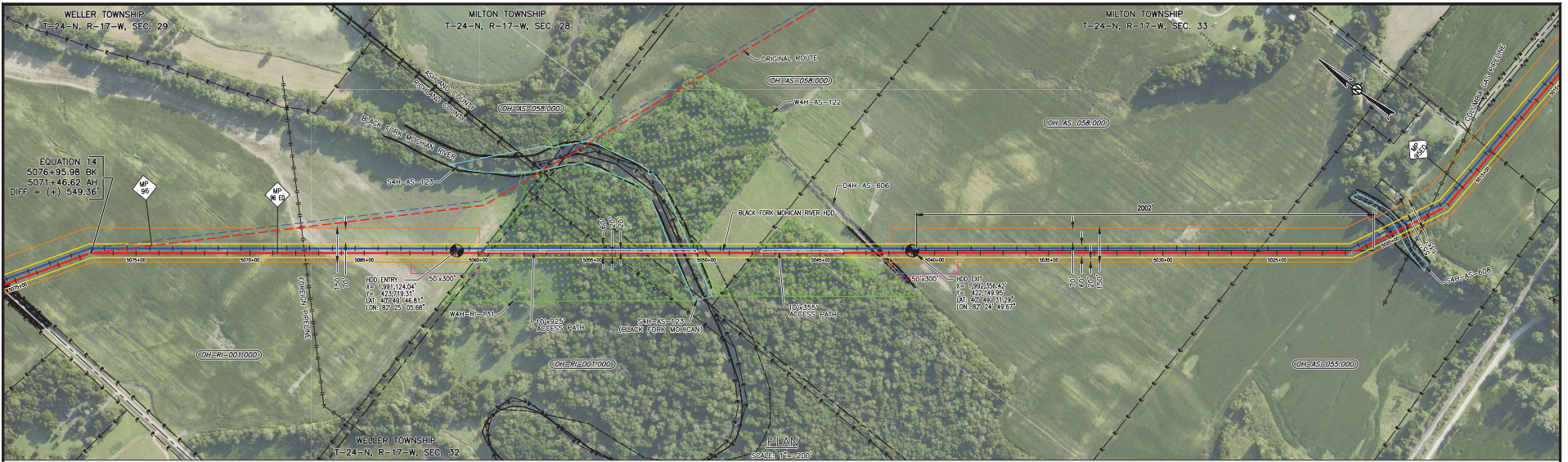
- SPECIFICATIONS:**
CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAKP 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 1,357 FT.
- GENERAL NOTES:**
1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
3) FOOT ACCESS FOR HDD GUIDED WIRE WILL BE REQUIRED
100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.
- ENVIRONMENTAL NOTES:**
1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.
- LEGEND:**
- ENVIRONMENTAL LEGEND:**

G-2-27

Appendix G-2

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SHEET 1 OF 1																																																																												

05-05-15 10:28:11 AM



BLACK FORK MOHICAN RIVER HDD

PROFILE
HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 50'

SPECIFICATIONS:

CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MAKP 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 2,002 FT.

GENERAL NOTES:

- GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.

ENVIRONMENTAL NOTES:

- EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
- PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:

- PROPOSED MAINLINE A
- PROPOSED MAINLINE B
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ADDITIONAL TEMPORARY WORK SPACE
- ACCESS PATH
- ▲ GEOTECH CORE

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

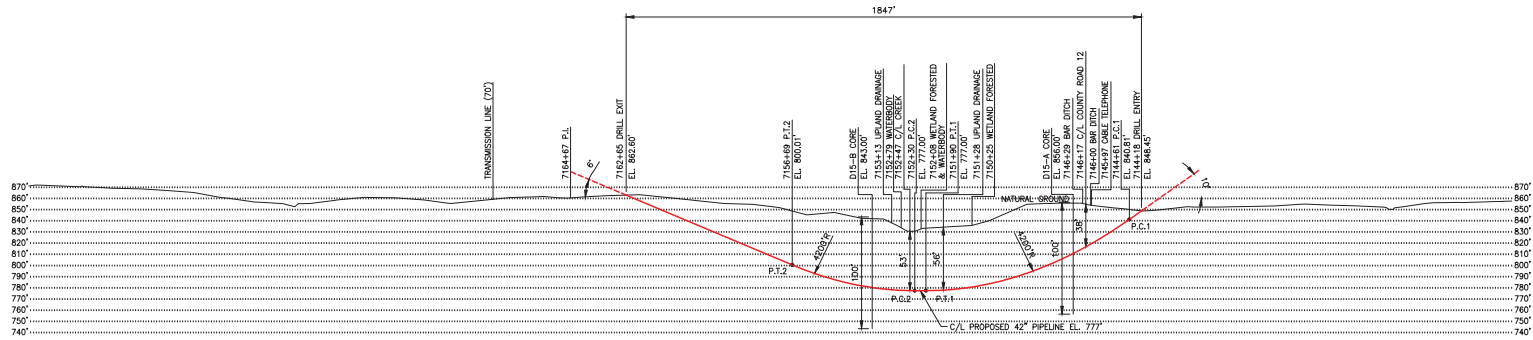
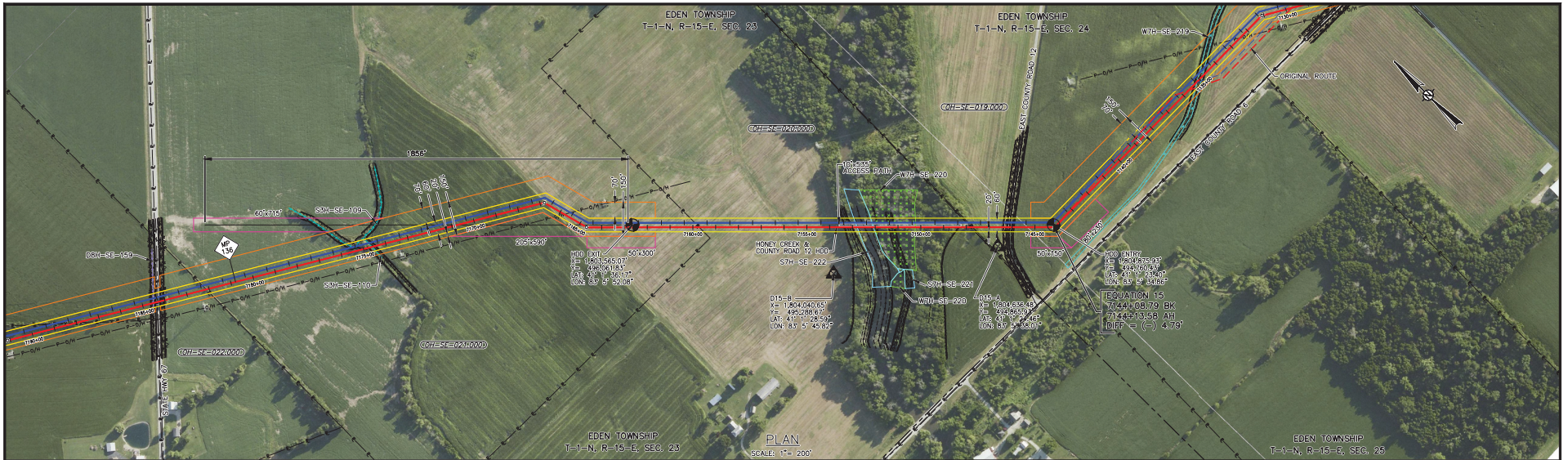
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ML-P3-4019	ALIGNMENT	A	FERC FILING	NLM	11-5-14	CRF	JHR
ML-P3-4018A	ALIGNMENT	A	FERC FILING	RBR	11-7-14	CRF	JHR
		B	GEOTECHNICAL CORE COLLECTION	MFZ	1-15-15	CRF	JHR
		D	FERC FILING UPDATE	LEW	6-3-15	CRF	JHR

DWG. STATUS	CHECKED		APPROVED		PL./JOB NO. / DRAWING NO.	CONSTRUCTION YEAR	2016
	BY	DATE	BY	DATE			
PRELIM					DESIGN	JHR	9-4-14
BID					DRAWN	NLM	9-4-14
CONSTR.					ASBUILT		
CADD					FILE NO.		
					SCALE: NOTED		



ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
BLACK FORK MOHICAN RIVER HDD
M.P. 95.5 TO M.P. 95.9
RICHLAND & ASHLAND COUNTY, OHIO

PROJECT NO.	58500000001
PREVIOUS DWG. NO.	
SHEET 1 OF 1	ML-P4-14
DWG. NO.	
SHEET 1 OF 1	



HONEY CREEK & COUNTY ROAD 12 HDD
PROFILE
HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 50'

SPECIFICATIONS:

CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 40 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MASP 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 1,856 FT.

GENERAL NOTES:

- GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- FOOT ACCESS FOR HDD GUIDED WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:

- EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
- PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:

- PROPOSED MAINLINE A
- PROPOSED MAINLINE B
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ADDITIONAL TEMPORARY WORK SPACE
- ACCESS PATH
- GEOTECH CORE

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHKD	APPD
ML-P3-5009	ALIGNMENT	A	FERC FILING	NLM	11-5-14	CRF	JHR
ML-P3-5008	ALIGNMENT	B	GEOTECHNICAL CORE COLLECTION	RBR	11-7-14	CRF	JHR
		C	FERC FILING UPDATE	KMA	1-15-15	CRF	JHR
		D	FERC FILING UPDATE	LHW	6-3-15	CRF	JHR
		E	FERC FILING UPDATE	RBR	6-24-15	JHR	JHR

DWG STATUS	CHECKED		APPROVED		PL/DATE NO. ACORN NO.	CONSTRUCTION YEAR	2016
	BY	DATE	BY	DATE			
PREL.Y					DESIGN	JHR	9-4-14
BID					ASBUILT	KMA	
CONSTR.					FILE NO.		
CADD					SCALE: NOTED		



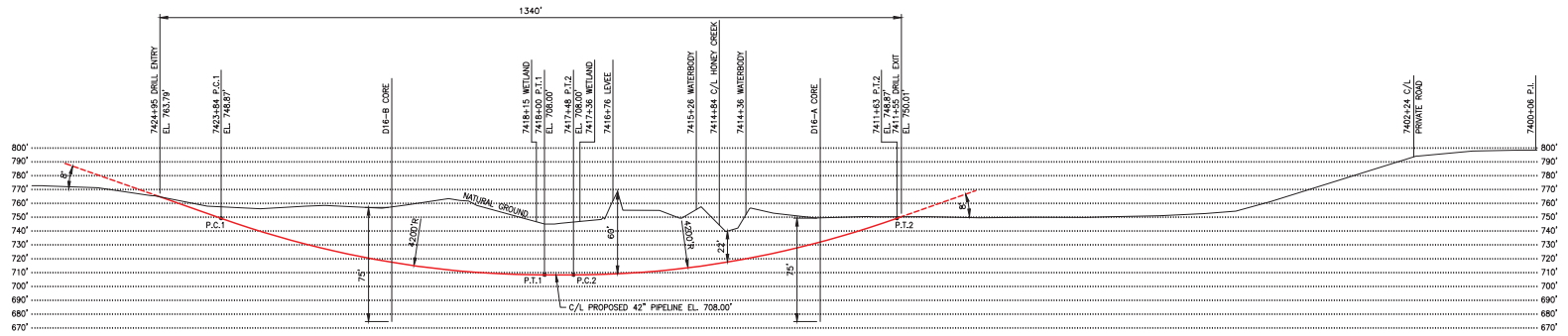
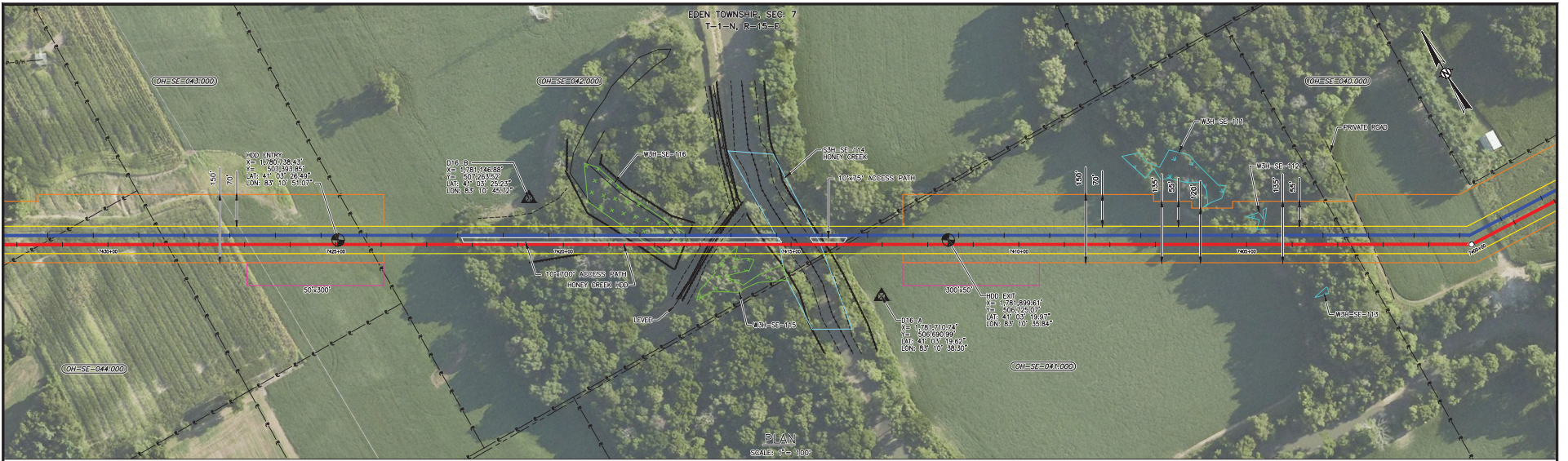
ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
HONEY CREEK & COUNTY ROAD 12 HDD
M.P. 135.3 TO M.P. 135.7
SENECA COUNTY, OHIO

PROJECT NO. 5850000001
PREVIOUS DWG. NO.
SHEET 1 OF 1
DWG. NO. ML-P4-15
SHEET 1 OF 1

G2-29

Appendix G-2

06-23-15 11:53 111.9 35.86



HONEY CREEK HDD
PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 40'

SPECIFICATIONS:

CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
DESIGN PRESSURE: MARK 1,440 PSIG
LOCATION CLASS: TBD
DESIGN FACTOR: 0.5
TRUE LENGTH: 1,345 FT.

GENERAL NOTES:

- GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:

- EROSION/SEDIMENTATION CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
- PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:

- PROPOSED PIPELINE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ADDITIONAL TEMPORARY WORK SPACE
- ACCESS PATH
- ▲ GEOTECH CORE

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

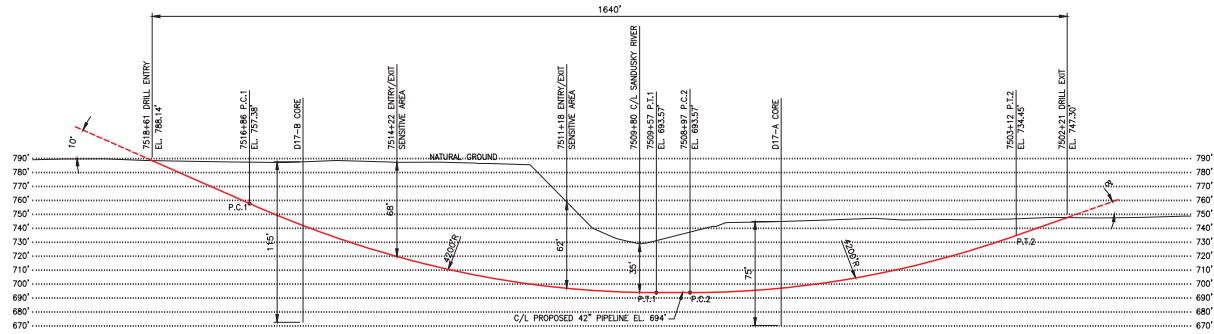
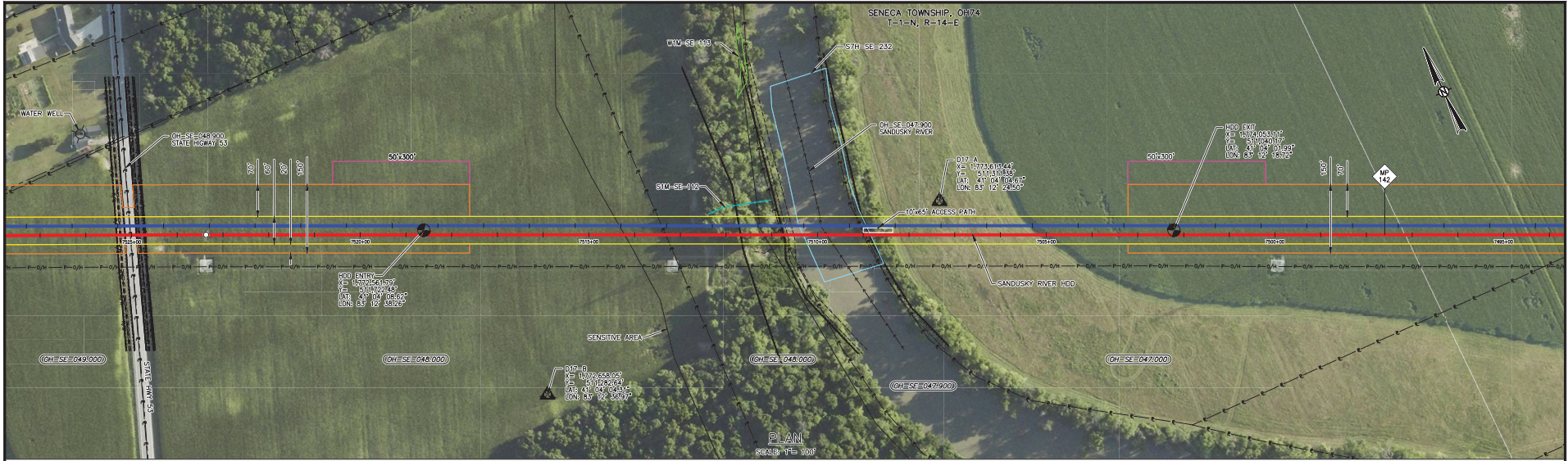
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ML-P3-5013	ALIGNMENT						

DWG STATUS	CHECKED		APPROVED		P.L./D.W. NO.	ACTIVITY NO.	CONSTRUCTION YEAR	2016
	BY	DATE	BY	DATE				
PREL.Y								
BID								
CONSTR.								
CADD								
	PLOT DATE:							
	FILE NAME:							

DESIGNED BY PIPELINE
APPROVED BY TRANSPORTATION

ROVER PIPELINE PROJECT
MAINLINE - 42" NG PIPELINE
HONEY CREEK HDD
M.P. 140.4 TO M.P. 140.6
SENECA COUNTY, OHIO

PROJECT NO.	58500000001
PREVIOUS DWG. NO.	
SHEET 1 OF 1	
DWG. NO.	ML-P4-16
SHEET 1 OF 1	



SPECIFICATIONS:
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAKP 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 1,649 FT.

GENERAL NOTES:

- GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
- PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE.
- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

ENVIRONMENTAL NOTES:

- EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
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- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:

- Proposed Mainline A
- Proposed Mainline B
- Permanent Easement
- Temporary Work Space
- Additional Temporary Work Space
- Access Path
- Geotech Core

ENVIRONMENTAL LEGEND:

- Perennial Stream
- Epithermal Stream
- Intermittent Stream
- Natural Drainage
- Waterbody
- Wetland Emergent
- Wetland Forested
- Wetland Scrub Shrub

NO.	REVISION - DESCRIPTION	BY	DATE	CHK'D	APP'D
E	FERC FILING UPDATE	RBR	6-24-15	JHR	JHR
D	FERC FILING UPDATE	KAM	6-3-15	JHR	JHR
C	FERC FILING	MFZ	1-15-15	CRF	JHR
B	GEOTECHNICAL CORE COLLECTION	RBR	11-7-14	CRF	JHR
A	FERC DRAFT FILING	NLM	11-5-14	CRF	JHR

DWG STATUS	CHECKED			APPROVED			P.L./D.W. NO.	SCALE
	BY	DATE		BY	DATE			
PREL.Y							CONSTRUCTION YEAR 2016	
BID							DESIGN	JHR
CONSTR.							DRAWN	NLM 9-24-14
CADD							ASBUILT	

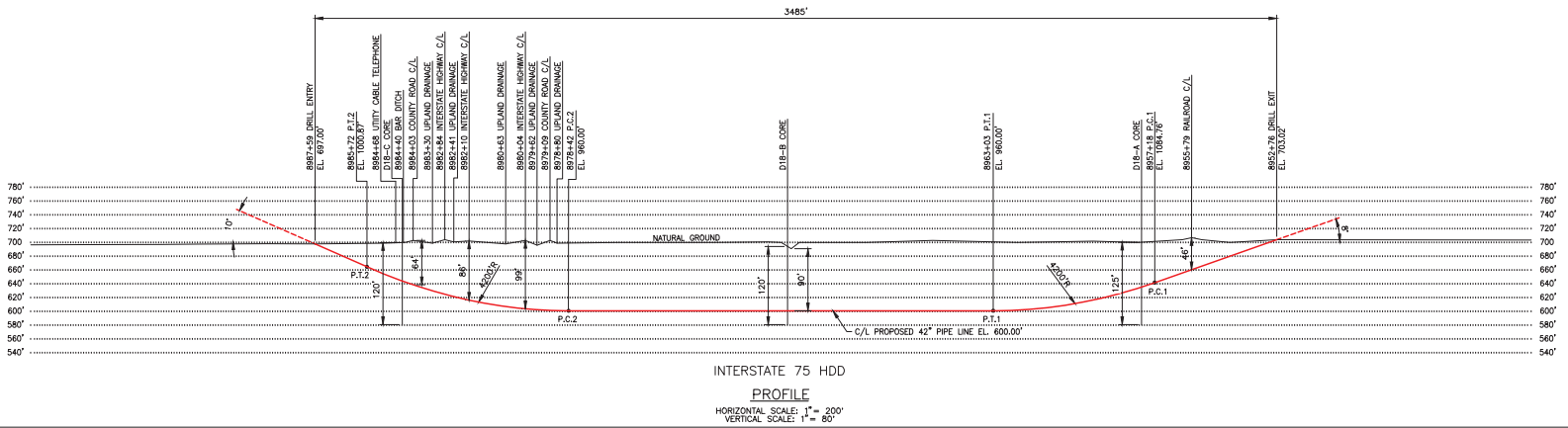
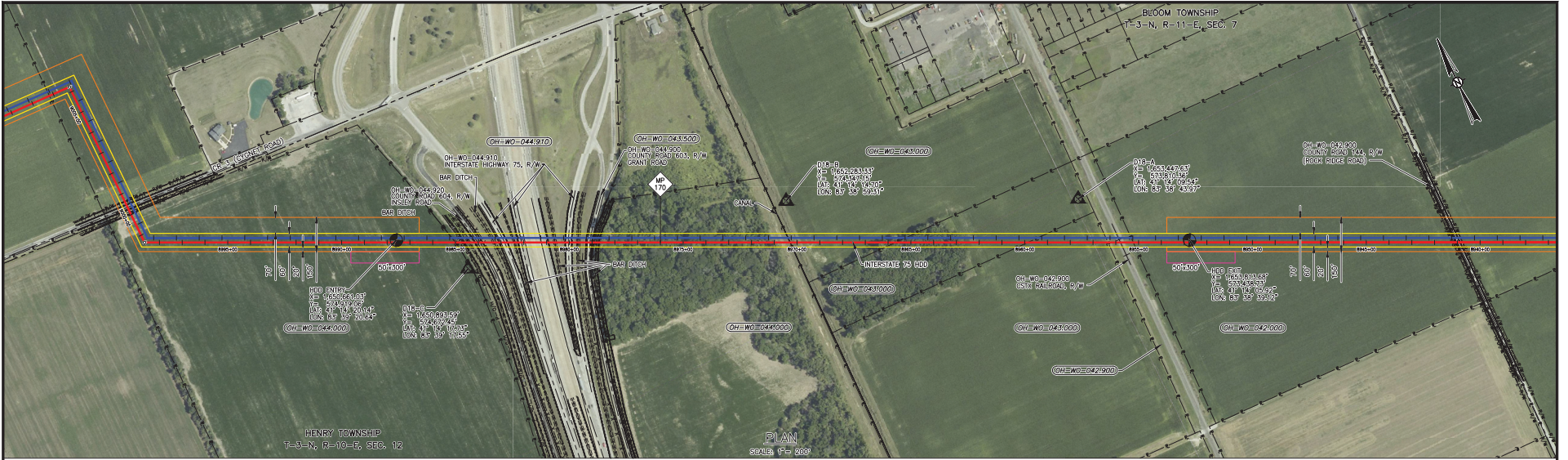
ROVER PIPELINE PROJECT
 MAINLINE - 42" NG PIPELINE
 SANDUSKY RIVER HDD
 M.P. 142.1 TO M.P. 142.4
 SENECA COUNTY, OHIO

PROJECT NO.	58500000001
PREVIOUS DWG. NO.	
SHEET 1 OF 1	
DWG. NO.	ML-P4-17
SHEET 1 OF 1	

G2-31

Appendix G-2

06-23-15 11:57 4415 17 886



SPECIFICATIONS:
 CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MAOP: 1,440 PSIG
 LOCATION CLASS: T.B.D.
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 3,497 FT.

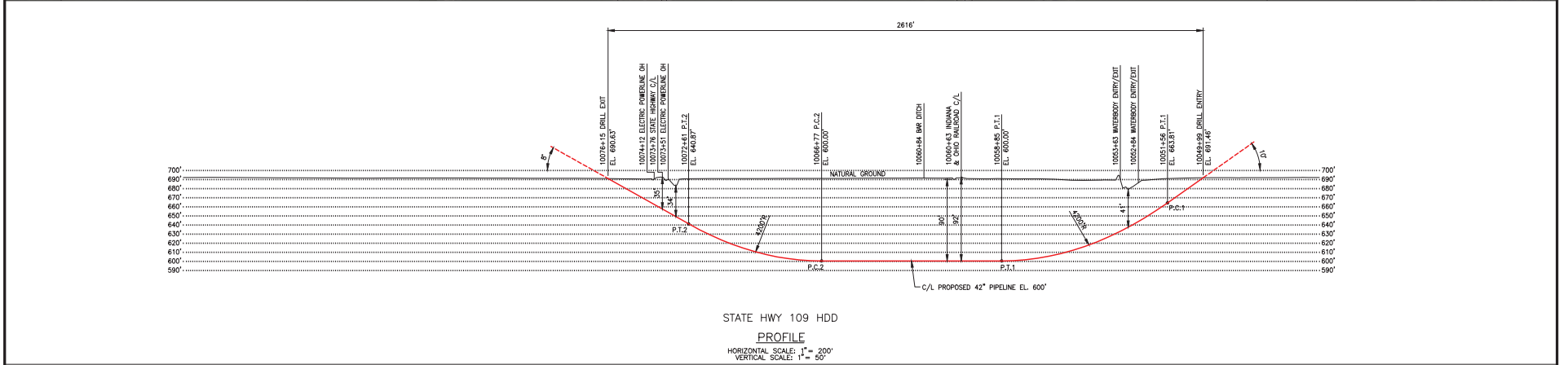
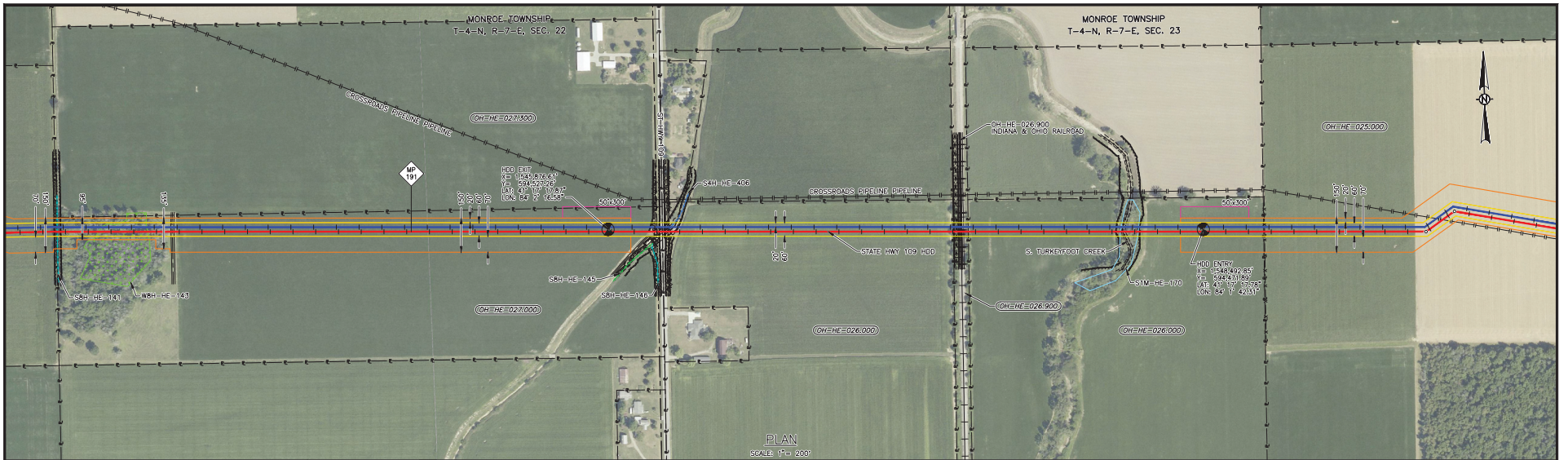
GENERAL NOTES:
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
 3) FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED FOR ALL 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.

ENVIRONMENTAL NOTES:
 1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
 2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
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 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:
 - - - - - PROPOSED MAINLINE A
 - - - - - PROPOSED MAINLINE B
 - - - - - PERMANENT EASEMENT
 - - - - - TEMPORARY WORK SPACE
 - - - - - ADDITIONAL TEMPORARY WORK SPACE
 - - - - - ACCESS PATH
 - - - - - GEOTECH CORE

ENVIRONMENTAL LEGEND:
 - - - - - PERENNIAL STREAM
 - - - - - EPHEMERAL STREAM
 - - - - - INTERMITTENT STREAM
 - - - - - NATURAL DRAINAGE
 - - - - - WATERBODY
 - - - - - WETLAND EMERGENT
 - - - - - WETLAND FORESTED
 - - - - - WETLAND SCRUB SHRUB

<table border="1"> <tr> <th>DWG. NO.</th> <th>REFERENCE DRAWING TITLE</th> <th>NO.</th> <th>REVISION - DESCRIPTION</th> <th>BY</th> <th>DATE</th> <th>CHKD</th> <th>APPD</th> </tr> <tr> <td>ML-P3-5043</td> <td>ALIGNMENT</td> <td>A</td> <td>FERC DRAFT FLING</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHKD	APPD	ML-P3-5043	ALIGNMENT	A	FERC DRAFT FLING					<table border="1"> <tr> <th>DWG. STATUS</th> <th>CHECKED BY</th> <th>DATE</th> <th>APPROVED BY</th> <th>DATE</th> </tr> <tr> <td>PRELIM</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>BID</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CONSTR.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CADD</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		DWG. STATUS	CHECKED BY	DATE	APPROVED BY	DATE	PRELIM					BID					CONSTR.					CADD					<table border="1"> <tr> <th>PL/ISS. NO.</th> <th>ISSUE NO.</th> <th>CONSTRUCTION YEAR</th> </tr> <tr> <td></td> <td></td> <td>2016</td> </tr> </table>		PL/ISS. NO.	ISSUE NO.	CONSTRUCTION YEAR			2016	<table border="1"> <tr> <th>DESIGN</th> <th>JHR</th> <th>DATE</th> </tr> <tr> <td>DESIGN</td> <td>NLM</td> <td>9-30-14</td> </tr> <tr> <th>ASBUILT</th> <th>FILE NO.</th> <th>SCALE: NOTED</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		DESIGN	JHR	DATE	DESIGN	NLM	9-30-14	ASBUILT	FILE NO.	SCALE: NOTED				<table border="1"> <tr> <td>PROJECT NO.</td> <td>58500000001</td> </tr> <tr> <td>PREVIOUS DWG. NO.</td> <td></td> </tr> <tr> <td>SHEET 1 OF 1</td> <td></td> </tr> <tr> <td>DWG. NO.</td> <td>ML-P4-18</td> </tr> <tr> <td>SHEET 1 OF 1</td> <td></td> </tr> </table>		PROJECT NO.	58500000001	PREVIOUS DWG. NO.		SHEET 1 OF 1		DWG. NO.	ML-P4-18	SHEET 1 OF 1	
DWG. NO.	REFERENCE DRAWING TITLE	NO.	REVISION - DESCRIPTION	BY	DATE	CHKD	APPD																																																																							
ML-P3-5043	ALIGNMENT	A	FERC DRAFT FLING																																																																											
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GENERAL NOTES:

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ENVIRONMENTAL NOTES:

- EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES.
- ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES.
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- EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.

LEGEND:

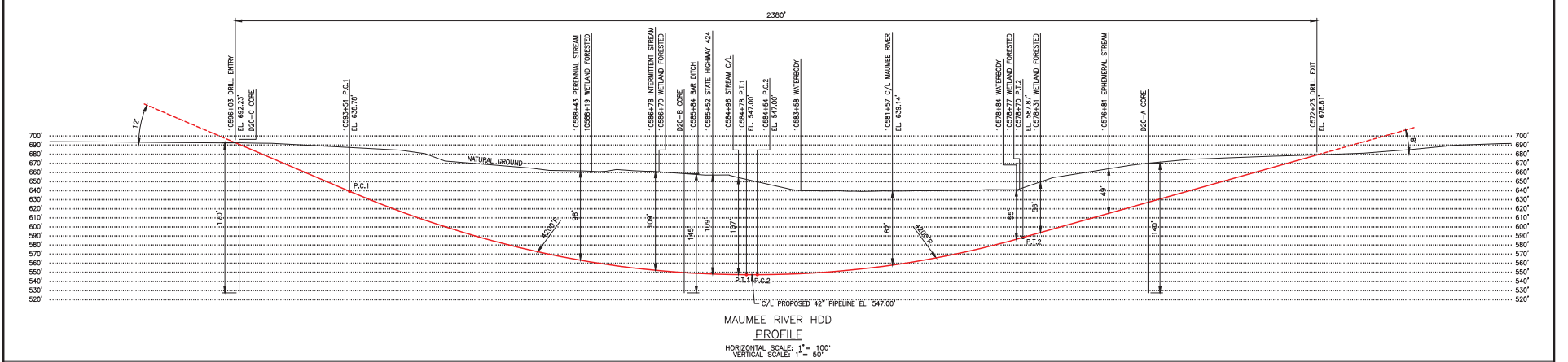
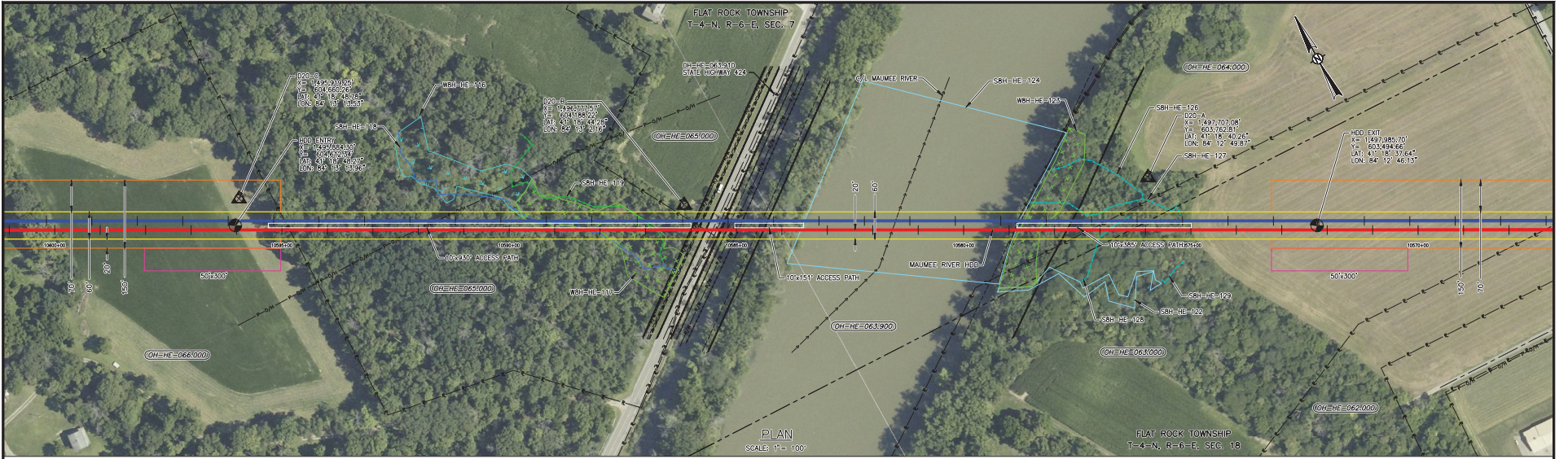
- PROPOSED MAINLINE A
- PROPOSED MAINLINE B
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ADDITIONAL TEMPORARY WORK SPACE
- ACCESS PATH
- GEOTECH CORE

ENVIRONMENTAL LEGEND:

- PERENNIAL STREAM
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- NATURAL DRAINAGE
- WATERBODY
- WETLAND EMERGENT
- WETLAND FORESTED
- WETLAND SCRUB SHRUB

SPECIFICATIONS:		GENERAL NOTES:		ENVIRONMENTAL NOTES:		LEGEND:		ENVIRONMENTAL LEGEND:	
CARRIER PIPE: 42.000" O.D. X 0.864" W.T. X-70 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO. HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX. DESIGN PRESSURE: MASP 1,440 PSIG. DESIGN CLASS: TBD. DESIGN FACTOR: 0.5. TRUE LENGTH: 2,628 FT.		1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866. 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION. 3) FOOT ACCESS FOR HDD TRUCKER WIRE WILL BE REQUIRED 100 FT TO 200 FT BOTH SIDES OF CENTERLINE. HAND CLEARING OF TREES 3" DIAMETER AND SMALLER.		1) EROSION/SEDIMENT CONTROL STRUCTURES TO BE INSTALLED AND MAINTAINED TO MINIMIZE IMPACTS TO WETLANDS OR WATERBODIES. 2) ANY ON-LAND TRENCH DEWATERING TO BE DIRECTED TO WETLAND FILTER BAG AND/OR DEWATERING STRUCTURE IN AN UPLAND AREA TO MINIMIZE EROSION OF SEDIMENTATION TO WETLANDS/WATERBODIES. 3) PRE-CONSTRUCTION CONTOURS TO BE RE-ESTABLISHED FOR ALL DISTURBED AREAS. ALL DISTURBED AREAS TO BE RESTORED AND/OR REVEGETATED AS APPLICABLE. 4) EROSION/SEDIMENTATION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL RESTORATION AND REVEGETATION ARE DEEMED SUCCESSFUL.		<ul style="list-style-type: none"> PROPOSED MAINLINE A PROPOSED MAINLINE B PERMANENT EASEMENT TEMPORARY WORK SPACE ADDITIONAL TEMPORARY WORK SPACE ACCESS PATH GEOTECH CORE 		<ul style="list-style-type: none"> PERENNIAL STREAM EPHEMERAL STREAM INTERMITTENT STREAM NATURAL DRAINAGE WATERBODY WETLAND EMERGENT WETLAND FORESTED WETLAND SCRUB SHRUB 	

ML-P3-6021 ALIGNMENT		B FERC FILING UPDATE		KMA 6-3-15		JHR JHR		PROJECT NO. 58500000001	
A FERC FILING		A FERC FILING		LRW 1-15-15		JHR JHR		PREVIOUS DWG. NO.	
NO. REVISION - DESCRIPTION		NO. REVISION - DESCRIPTION		BY DATE CHKD APPD		BY DATE CHKD APPD		SHEET 1 OF 1	
								ML-P4-18A	
								SHEET 1 OF 1	



SPECIFICATIONS:
 CARRIER PIPE: 42,000" O.D. X 0.864" W.T. X-70
 A.P.I. 5L PSL 2, DSAW, W/ 14-16 MILS FBE AND 26 MILS ARO
 HYDROSTATIC PRE-TEST PRESSURE: "TBD" PSIG MIN - "TBD" PSIG MAX
 DESIGN PRESSURE: MASP 1,440 PSIG
 LOCATION CLASS: TBD
 DESIGN FACTOR: 0.5
 TRUE LENGTH: 2,400 FT.

GENERAL NOTES:
 1) GRID PROJECTION BASED UPON OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (GRID UNITS IN FEET) GEODETIC DATUM: NAD 1983, CLARKE SPHEROID, 1866.
 2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FOREIGN PIPELINE CROSSINGS AND COVER PRIOR TO CONSTRUCTION.
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LEGEND:
 - PROPOSED MAINLINE A
 - PROPOSED MAINLINE B
 - PERMANENT EASEMENT
 - TEMPORARY WORK SPACE
 - ADDITIONAL TEMPORARY WORK SPACE
 - ACCESS PATH
 - GEOTECH CORE

ENVIRONMENTAL LEGEND:
 - PERENNIAL STREAM
 - EPHEMERAL STREAM
 - INTERMITTENT STREAM
 - NATURAL DRAINAGE
 - WATERBODY
 - WETLAND EMERGENT
 - WETLAND FORESTED
 - WETLAND SCRUB SHRUB

ML-P3-6031 ALIGNMENT		NO.		REVISION - DESCRIPTION		BY		DATE		CHKD		APPD	
D	FERC FILING UPDATE			KMA	6-3-15	JHR	JHR						
C	FERC FILING			KMA	1-15-15	CRF	JHR						
B	GEOTECHNICAL CORE COLLECTION			GJD	11-7-14	CRF	JHR						
A	FERC DRAFT FILING			MFZ	11-5-14	CRF	JHR						

DWG STATUS	CHECKED	APPROVED		P.L./D.M. NO.	CONSTRUCTION YEAR	2016
PREL.Y	BY	DATE	BY	DATE	BY	DATE
CONSTR.	DESIGN	JHR	NLM	9-4-14		
CADD	ASBUILT					
	FILE NO.					
	SCALE: NOTED					

ROVER PIPELINE PROJECT MAINLINE - 42" NG PIPELINE MAUMEE RIVER HDD M.P. 200.2 TO M.P. 200.6 HENRY COUNTY, OHIO		PROJECT NO. 58500000001
SHEET 1 OF 1		PREVIOUS DWG. NO.
DWG. NO. ML-P4-20		
SHEET 1 OF 1		